

Roll No.

Total Pages : 03

BT-6/M-19

36113

COMPILER DESIGN

CSE-302N

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt *Five* questions in all. Q. No. 1 is compulsory.
In addition to that attempt *four* more questions selecting exactly *one* question from each Unit.

Unit I

1. (a) What are regular expressions ? Write a regular expression for a language that accept all those strings in which the number of one's are odd and the number of zero's are even. 7½
- (b) What is Deterministic Finite Automation (DFA) ? How is it related to Regular expression ? 7½
2. Draw a flow diagram for showing the phases of a compiler and discuss each phase in detail. 15

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Unit II

3. (a) What is a data type ? Explain different data types in detail with examples.
- (b) What is the ~~difference~~ between while and do while loop ? 8+7=15
4. Briefly explain the following :
 - (a) Instance variables and methods
 - (b) Constructors
 - (c) Use case diagrams 5+5+5=15

Unit III

5. (a) What is Polymorphism ? Discuss methodology for static and dynamic polymorphism.
- (b) Differentiate between aggregation, generalization and association. 8+7=15
6. Explore the best coding standards offered by industry. How codes are tuned and optimized ? 15

Unit IV

7. (a) Outline and explain the different symbolic notation used to draw ER diagram.

L-36114

12

- (b) What is Normalization ? Discuss normal form based on full and partial function dependency. 8+7=15
- (a) Why SQL is a query language ? Distinguish between delete, drop and truncate commands with example.
- (b) What do you mean by views ? How views are created and dropped ? 8+7=15

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